

CLAIMS:

- 1 1. A method for converting Structure Queried Language (SQL) queries into an
2 Open Database Connectivity (ODBC) standard comprising the steps of:
3 parsing a source code to identify one or more keywords;
4 identifying an SQL statement based on said one or more keywords;
5 matching said SQL statement with a function, wherein said function is
6 associated with one or more ODBC calls; and
7 substituting said SQL statement with a call to said function.
- 1 2. The method as recited in claim 1 further comprising the steps of:
2 identifying one or more variables based on said one or more keywords; and
3 building a data structure for each of said one or more variables.
- 1 3. The method as recited in claim 2 further comprising the step of:
2 extracting parameters from said SQL statement, wherein said parameters are
3 data required to process said SQL statement.
- 1 4. The method as recited in claim 3 further comprising the step of:
2 incorporating said parameters and address of each of said data structure built
3 in said function.
- 1 5. The method as recited in claim 1 further comprising the step of:
2 evaluating said SQL statement, wherein said function is matched with said
3 SQL statement upon evaluating said SQL statement.
- 1 6. The method as recited in claim 2, wherein said data structure stores at least
2 one of information required to process said SQL statement and a result of processing
3 said SQL statement.

- 1 7. The method as recited in claim 1 further comprising the steps of:
2 compiling said source code with said call to said function substituted for said
3 SQL statement;
4 executing said compiled source code; and
5 executing said one or more ODBC calls associated with said function.
- 1 8. The method as recited in claim 7, wherein said SQL statement requests a
2 particular query, wherein the method further comprises the step of:
3 returning a result of said particular query in response to said one or more
4 ODBC calls.
- 1 9. The method as recited in claim 8 further comprising the step of:
2 outputting said result.

1 10. A computer program product having a computer readable medium having
2 computer program logic recorded thereon for converting Structure Queried Language
3 (SQL) queries into an Open Database Connectivity (ODBC) standard, comprising:

4 programming operable for parsing a source code to identify one or more
5 keywords;

6 programming operable for identifying an SQL statement based on said one or
7 more keywords;

8 programming operable for matching said SQL statement with a function,
9 wherein said function is associated with one or more ODBC calls; and

10 programming operable for substituting said SQL statement with a call to said
11 function.

1 11. The computer program product as recited in claim 10 further comprising:

2 programming operable for identifying one or more variables based on said one
3 or more keywords; and

4 programming operable for building a data structure for each of said one or
5 more variables.

1 12. The computer program product as recited in claim 11 further comprising:

2 programming operable for extracting parameters from said SQL statement,
3 wherein said parameters are data required to process said SQL statement.

1 13. The computer program product as recited in claim 12 further comprising:

2 programming operable for incorporating said parameters and address of each
3 of said data structure built in said function.

1 14. The computer program product as recited in claim 10 further comprising:
2 programming operable for evaluating said SQL statement, wherein said
3 function is matched with said SQL statement upon evaluating said SQL statement.

1 15. The computer program product as recited in claim 11, wherein said data
2 structure stores at least one of information required to process said SQL statement
3 and a result of processing said SQL statement.

1 16. The computer program product as recited in claim 10 further comprising:
2 programming operable for compiling said source code with said call to said
3 function substituted for said SQL statement;
4 programming operable for executing said compiled source code; and
5 programming operable for executing said one or more ODBC calls associated
6 with said function.

1 17. The computer program product as recited in claim 16, wherein said SQL
2 statement requests a particular query, wherein the computer program product further
3 comprises:
4 programming operable for returning a result of said particular query in
5 response to said one or more ODBC calls.

1 18. The computer program product as recited in claim 17 further comprising:
2 programming operable for outputting said result.

1 19. A system, comprising:
2 a processor;
3 a memory unit operable for storing a computer program operable for
4 converting Structure Queried Language (SQL) queries into an Open Database
5 Connectivity (ODBC) standard;
6 an input mechanism;
7 an output mechanism; and
8 a bus system coupling the processor to the memory unit, input mechanism,
9 and output mechanism, wherein the computer program is operable for performing the
10 programming steps:

11 parsing a source code to identify one or more keywords;
12 identifying an SQL statement based on said one or more keywords;
13 matching said SQL statement with a function, wherein said function is
14 associated with one or more ODBC calls; and
15 substituting said SQL statement with a call to said function.

1 20. The system as recited in claim 19, wherein the computer program is further
2 operable to perform the following programming steps:

3 identifying one or more variables based on said one or more keywords; and
4 building a data structure for each of said one or more variables.

1 21. The system as recited in claim 20, wherein the computer program is further
2 operable to perform the following programming step:

3 extracting parameters from said SQL statement, wherein said parameters are
4 data required to process said SQL statement.

1 22. The system as recited in claim 21, wherein the computer program is further
2 operable to perform the following programming step:

3 incorporating said parameters and address of each of said data structure built
4 in said function.

1 23. The system as recited in claim 19, wherein the computer program is further
2 operable to perform the following programming step:

3 evaluating said SQL statement, wherein said function is matched with said
4 SQL statement upon evaluating said SQL statement.

1 24. The system as recited in claim 20, wherein said data structure stores at least
2 one of information required to process said SQL statement and a result of processing
3 said SQL statement.

1 25. The system as recited in claim 19, wherein the computer program is further
2 operable to perform the programming steps:

3 compiling said source code with said call to said function substituted for said
4 SQL statement;

5 executing said compiled source code; and

6 executing said one or more ODBC calls associated with said function.

1 26. The system as recited in claim 25, wherein said SQL statement requests a
2 particular query, wherein the computer program is further operable to perform the
3 programming step:

4 returning a result of said particular query in response to said one or more
5 ODBC calls.

- 1 27. The system as recited in claim 26, wherein the computer program is further
- 2 operable to perform the programming step:
- 3 outputting said result.